

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**  
(PCT Article 36 and Rule 70)

REC'D 03 JUN 2005

WIPO PCT

Applicant's or agent's file reference <b>X</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. <b>PCT/N 03/00268</b>	International filing date ( <i>day/month/year</i> ) <b>11.08.2003</b>	Priority date ( <i>day/month/year</i> ) <b>23.05.2003</b>
International Patent Classification (IPC) or both national classification and IPC <b>H04N5/74</b>		
Applicant <b>IL &amp; FS EDUCATION &amp; TECHNOLOGY SERVICES ...</b>		

<p>1. This International preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li>I <input checked="" type="checkbox"/> Basis of the opinion</li> <li>II <input type="checkbox"/> Priority</li> <li>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>IV <input type="checkbox"/> Lack of unity of Invention</li> <li>V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>VI <input type="checkbox"/> Certain documents cited</li> <li>VII <input type="checkbox"/> Certain defects in the international application</li> <li>VIII <input type="checkbox"/> Certain observations on the international application</li> </ul>	

Date of submission of the demand <b>07.12.2004</b>	Date of completion of this report <b>01.06.2005</b>
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer  <b>Schoeyer, M</b> Telephone No. +49 89 2399-2136



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/IN 03/00268

**I. Basis of the report**

1. With regard to the elements of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-24 as originally filed

**Claims, Numbers**

1-11 received on 07.12.2004 with letter of 03.12.2004

**Drawings, Sheets**

1/8-8/8 as originally filed

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of International preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:
- the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/N 03/00268

5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).  
*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-11
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	1-11
Industrial applicability (IA)	Yes: Claims	1-11
	No: Claims	

2. Citations and explanations

see separate sheet

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IN 03/00268

Re V.

Reference is made to the following documents:

- D1: WO 02/25944 A (IBM DEUTSCHLAND ;IBM (US)) 28 March 2002 (2002-03-28)  
D2: US 2002/175915 A1 (LICHTFUSS HANS A) 28 November 2002 (2002-11-28)  
D3: PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) & JP 2000 206482 A (MATSUSHITA ELECTRIC IND CO LTD), 28 July 2000 (2000-07-28)

I. Article 33(3) PCT

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

From document D1 (see abstract) it is known to provide a portable, integrated, electronic, interactive device suitable for community learning, data transmission, entertainment, and public governance comprising:

- (a) housing;
- (b) said housing accommodating a plurality of sub-assemblies
- © said sub-assemblies including:
  - i. a computational circuit (see D1, page 3, last paragraph) for generating, receiving, processing data input through an input device, and adapted to be connected to a network (see page 4, line 11), as well as various communication devices; and
  - ii. a recording device for recording, reproducing and storing audio, video, and/or digital data onto and / or from an external disk and an internal storage unit coupled to said computational circuit (see page 4, line 2 ff.);
  - iii. a projecting device for projection video and digital data into a predetermined ultra large size image over a surface external to the housing, coupled to said recording device, computational circuit (see abstract, page 5,

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IN 03/00268

line 5 ff.; figure 3).

wherein said sub-assemblies are in pre-connected relationship with each other whereby the device is extremely compact, portable and easy to use.

Differently than shown in D1, it is claimed in claim 1 that the device comprises a television tuner card.

Television tuner cards are well known to the skilled person, and the skilled person will consider inserting such card when confronted with the need for projection television images.

As a consequence the subject-matter of claim 1 is considered to be obvious.

The subject-matter of the dependent claims is also obvious as will be briefly set out below:

- the inclusion of an audio amplifier (as in claim 2), -see D1 (page 10);
- use and location of a single on-off switch (as in claims 3, 4), -common general knowledge;
- computational circuit is a multimedia computer, -see D1 (page 9, third paragraph);
- recording device (as in claim 6), -see (page 7, last paragraph ff.);
- large size screen (as in claim 7), -see D1 (page 7, line 15 ff.);
- plurality of ports (as in claim 8), -see D1 (page 9, 2nd paragraph);
- common power supply (as in claim 9), -common general knowledge;
- modules and arrangement (as in claims 10 and 11), -common general knowledge;

**II. Article 33(4) PCT**

The subject-matter of claims 1-11 is industrially applicable in the field of projection devices.

AMENDED CLAIMS

1. A portable, integrated, electronic, interactive device for community learning, data transmission, entertainment, and public governance comprising :

- (a) a housing
- (b) said housing accommodating a plurality of sub-assemblies
- (c) said sub-assemblies including :
  - i. a computational circuit for generating, receiving, processing, and data input through an input device and adapted to be connected to a network, as well as various digital data communication devices; and
  - ii. a recording device for recording, reproducing and storing audio, video and / or digital data onto and/or from an external disk and an internal storage unit coupled to said computational circuit;
  - iii. a television tuner card coupled to said recording device and adapted to receive a plurality of television signal data;
  - iv. a projecting device for projecting video and digital data into a predetermined ultra large size image over a surface external to the housing; coupled to said recording device, computational circuit and television tuner card;

wherein said sub-assemblies are in pre-connected relationship with each other whereby the device is extremely compact, portable and easy to use.

2. The device according to claim 1 wherein the housing further comprises an audio amplifier circuit operable in conjunction with the sub-assemblies.

IN 03 / 00268

3. The device according to claim 1 wherein the sub-assemblies are operable by a single ON-OFF switch.
4. The device according to claims 1 to 3 wherein the housing comprises a front panel and a rear panel and / or the sub-assemblies are operated by an ON-OFF switch located at the front panel of the housing.
5. The device as claimed in claims 1 to 4 wherein the computational circuit is preferably a multimedia computer.
6. The device according to any one of the claims 1 to 5 wherein the recording device for recording, reproducing and storing audio, video and / or digital from an external disk is an audio CD player, a VCD player a DVD player an MP3 player a CD-R/CD-RW or a combination apparatus thereof.
7. The device according to any one of the claims 1 to 6 combined with an ultra large size display and wherein the size of the ultra large size display is preferably in the range of about 21 inches to about 300 inches diagonal measure.
8. The device according to any one of the claims 1 to 7 wherein the housing comprises a plurality of ports at the rear panel for connecting the device to a network, input for receiving television signals through cable or antenna.
9. The device according to any one of the claims 1 to 8 wherein a common power supplies power to the sub-assemblies; and/or a remote control is used to control the operation of the sub-assemblies.
10. The device according to anyone of the claims 1 to 9 wherein the sub-assemblies (ii), (iii) and (iv) are configured as a first module and the sub-assembly (i) is configured as a second module.

11. The device according to claim 10 wherein :
  - the first module is data module; and/or
  - the second module is a projection module; and/or
  - the first module is located adjoining above or besides the second module; and/or
  - the first module and the second module are arranged in back - to - back adjoining configuration.